

COPY

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SCHOENBLUM  
FILED: MARCH 26, 2003 DOCKET NO.: A-8115  
TITLE: DIGITAL STREAM TRANSCODER

MARCH 26, 2003

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

Transmitted herewith for filing in the above-identified patent application, please find:

1. X 3 Page Information Disclosure Statement
2. X Form PTO-1449
3. X Copy of Cited Art

In the event a fee is required, the Commissioner is hereby authorized to charge payment of any fees required in connection with this Information Disclosure Statement to our Deposit Account No. 19-0761. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted:

SEND CORRESPONDENCE TO:

Scientific-Atlanta, Inc.  
Intellectual Property Dept. MS 4.3.510  
5030 Sugarloaf Parkway  
Lawrenceville, GA 30044

By:



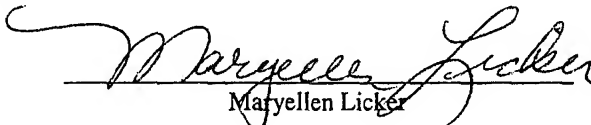
SHELLEY L. COUTURIER  
Agent of Record  
Reg. No.: 47,503  
Phone: (770) 236-2352  
Fax No.: (770) 236-4806

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Commissioner for Patents  
Washington, DC 20231

on MARCH 26, 2003.

  
Maryellen Licker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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FILED: MARCH 26, 2003 DOCKET NO.: A-8115  
TITLE: DIGITAL STREAM TRANSCODER

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MARCH 26, 2003

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

- ☒ under 37 CFR 1.97(b), or  
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement Under 37 C.F.R. 1.97(e), or  
☐ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(i)(1).  
(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge \$0.00 to deposit account 19-0761. At any time during the pendency of this application, please charge any fees required to Deposit Account 19-0761 pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. 19-0761.

- ☒ Applicant(s) submit herewith *Form PTO 1449 - Information Disclosure Citation* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.

The Cited Art includes:

1. U.S. 5,870,146
2. U.S. 6,058,143
3. U.S. 6,081,295
4. U.S. 6,141,447

5. U.S. 6,259,741
6. U.S. 6,275,536
7. U.S. 6,400,763
8. U.S. 6,407,681
9. U.S. 6,434,197
10. U.S. 6,441,754
11. "A Frequency-Domain Video Transcoder for Dynamic Bit-Rate Reduction of MPEG-2 Bit Streams," Transaction Papers, Pedro A.A. Assuncao and Mohammed Ghanbari, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 8, No. 8, December 1998, pp. 953-967.
12. "Manipulation and Compositing of MC-DCT Compressed Video," Shih-Fu Chang and David G. Messerschmitt, IEEE Journal on Selected Areas in Communications, Vol. 13, No. 1, January 1995, pp. 1-11.
13. "THAM 15.5, A low-complexity MPEG-2 bit-rate transcoding algorithm," R. Klein Gunnewick, et al., 2000 IEEE, pp. 316-317.
14. "Local Bandwidth Constrained Fast Inverse Motion Compensation for DCT-Domain Video Transcoding," Shizhong Liu and Alan C. Bovik, The University of Texas at Austin, TX, 2001 IEEE, pp. 1609-1612.
15. "A Fast Algorithm for DCT-Domain Inverse Motion Compensation Based on Shared Information in a Macroblock," June-hwa Song and Boon-Lock Yeo, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 10, No. 5, August 2000, pp. 767-775.
16. "DSP-Based Transcoding of Digital Video Signals with MPEG-2 Format," Bernd Sostawa, et al., IEEE Transactions on Consumer Electronics, Vol. 46, No. 2, May 2000, pp. 358-362.
17. "MPEG-2 Multi-Program Transport Stream Transcoder," Takeshi Takahashi, et al., Waseda University, Japan, pp. 1-5.

- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

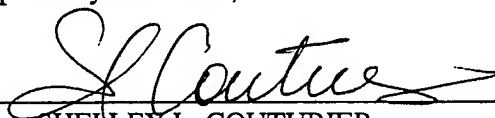
This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner

is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

By:



SHELLEY L. COUTURIER

Agent of Record

Reg. No.: 47,503

Phone: (770) 236-2352

Fax No.: (770) 236-4806

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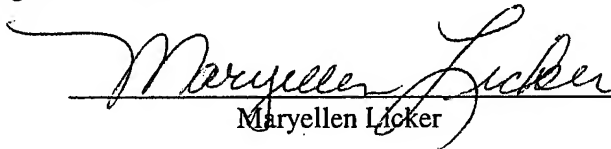
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Commissioner for Patents

Washington, DC 20231

on MARCH 26, 2003.

  
Maryellen Licker

Form PTO-1449		U.S. Dept. of Commerce, Patent and Trademarks					
<b>LIST OF ART CITED BY APPLICANT</b>							
(Use several sheets if necessary)							
Attorney Docket No. A-8115		Serial No. UNKNOWN			Filing Date MARCH 26, 2003		
Applicant: SCHOENBLUM				Group UNKNOWN			
<b>U.S. PATENT DOCUMENTS</b>							
Exami ner's Initial		Document No.	Date	Name	Class	Subclass	
	AA	5,870,146	2/9/99	Zhu	178	405	
	AB	6,058,143	5/2/00	Golin	375	240	
	AC	6,081,295	6/27/00	Adolph et al.	348	405	
	AD	6,141,447	10/31/00	Linzer et al.	382	236	
	AE	6,259,741	7/10/01	Chen et al.	375	240.26	
	AF	6,275,536	8/14/01	Chen et al.	375	240.25	
	AG	6,400,763	6/4/02	Wee	375	240.16	
	AH	6,407,681	6/18/02	Gatepin et al.	341	63	
	AI	6,434,197	8/13/02	Wang et al.	375	240.29	
	AJ	6,441,754	8/27/02	Wang et al.	341	50	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document No.	Date	Country	Class	Subclass	Translation
	AK						
	AL						
<b>OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.)</b>							
	AM	"A Frequency-Domain Video Transcoder for Dynamic Bit-Rate Reduction of MPEG-2 Bit Streams," Transaction Papers, Pedro A.A. Assuncao and Mohammed Ghanbari, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 8, No. 8, December 1998, pp. 953-967.					
	AN	"Manipulation and Compositing of MC-DCT Compressed Video," Shih-Fu Chang and David G. Messerschmitt, IEEE Journal on Selected Areas in Communications, Vol. 13, No. 1, January 1995, pp. 1-11.					
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	AP	"Local Bandwidth Constrained Fast Inverse Motion Compensation for DCT-Domain Video Transcoding," Shizhong Liu and Alan C. Bovik, The University of Texas at Austin, TX, 2001 IEEE, pp. 1609-1612.					
	AQ	"A Fast Algorithm for DCT-Domain Inverse Motion Compensation Based on Shared Information in a Macroblock," June-hwa Song and Boon-Lock Yeo, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 10, No. 5, August 2000, pp. 767-775.					
<b>EXAMINER</b>				<b>DATE CONSIDERED:</b>			
<b>EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance. Include copy of this form with next communication to Applicant.							

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Attorney Docket No. A-8115		Serial No. UNKNOWN			Filing Date MARCH 26, 2003		
Applicant: SCHOENBLUM				Group UNKNOWN			
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Examiner's Initial		Document No.	Date	Name	Class	Subclass	
	AR						
	AS						
	AT						
	AU						
	AV						
	AW						
	AX						
	AY						
	AZ						
	AAA						
<b>FOREIGN PATENT DOCUMENTS</b>							
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	ABB						
	ACC						
	ADD						
	AEE						
	AFF						
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	AII						
	AJJ						
	AKK						
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UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SCHOENBLUM ART GROUP: 2819  
APPL. NO.: 10/397,658 EXAMINER: UNKNOWN  
FILED: MARCH 26, 2003 DOCKET NO.: A-8115  
TITLE: DIGITAL STREAM TRANSCODER

JUNE 13, 2003

**TRANSMITTAL OF SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing in the above-identified patent application, please find:

1. X 2 Page Supplemental Information Disclosure Statement
2. X Form PTO-1449
3. X Copy of Cited Art
4. X Return Postcard

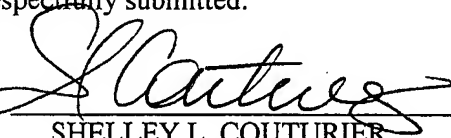
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Scientific-Atlanta, Inc.  
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5030 Sugarloaf Parkway  
Lawrenceville, GA 30044

By:

  
SHELLEY L. COUTURIER  
Agent of Record  
Reg. No.: 47,503  
Phone: (770) 236-2352  
Fax No.: (770) 236-4806

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on JUNE 13, 2003.

  
Maryellen Licker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: SCHOENBLUM GRP. ART UNIT: 2819  
APPL. NO.: 10/397,658 EXAMINER: UNKNOWN  
FILED: MARCH 26, 2003 DOCKET NO.: A-8115  
TITLE: DIGITAL STREAM TRANSCODER

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JUNE 13, 2003

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Alexandria, VA 22313-1450

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- ☒ under 37 CFR 1.97(b), or  
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
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The Cited Art includes:

1. U.S. 6,570,922



- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

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Maryellen Licker

Form PTO-1449

U.S. Dept. of Commerce, Patent and Trademarks

**LIST OF ART CITED BY APPLICANT**

(Use several sheets if necessary)

Attorney Docket No.

A-8115

Serial No.

10/397,658

Filing Date

MARCH 26, 2003

Applicant:

SCHOENBLUM

Group

2819

**U.S. PATENT DOCUMENTS**

Exami ner's Initial		Document No.	Date	Name	Class	Subclass	
	AA	6,570,922	5/27/03	Wang et al.	375	240.12	
	AB						
	AC						
	AD						
	AE						

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation
	AI						
	AG						
	AH						
	AI						

**OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.)**

	AJ						
	AK						
	AL						

**EXAMINER****DATE CONSIDERED:**

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